DATASHEET Taoglas EDGE™ IG10

Industrial Gateway





The Taoglas EDGE™ IG10 is a compact plug-and-play multisensor gateway with cellular and Bluetooth connectivity, providing ultra-low power consumption in a small form factor. It features an ARM M7 processor, optimized firmware/ OS RTOS, validated applications libraries (Real-Time Performance), and comes with an advanced onboard analytics engine. The Taoglas EDGE IG10 offers the ultimate degree of flexibility and scalability while saving costs and time to market for OEMs and enterprises looking to deploy industial IoT applications. Developed by industry experts and with proven commercial solutions across healthcare, industrial, transportation, agriculture, and smart city applications, you can be up and running with the Taoglas EDGE IG10 pre certified gateway in minutes.

The IoT design process is literally as simple as activating a SIM card. The solution is supported by Taoglas Insights[™] – a cloud management platform – which provides a scalable end-to-end solution for easy control and management of connected devices.

Key Features

- Cost-effective end-to-end Industrial Gateway with cellular 4G, GNSS, Bluetooth, and on-board movement sensors
- Industrial communication protocols
- Integrated digital and analog I/Os
- Industrial grade connectors
- Low power consumption
- Highly secure architecture
- Integration to Taoglas Insights platform
- Small Form Factor
- Ultra-low power consumption
- Plug-and-play with fast-time-to value for a variety of industrial IoT applications
- Device, data, SIM, and sensor management via Taoglas Insights™ platform
- Secure provisioning and certificate management
- Over The Air (OTA) firmware updates and device diagnostics
- Deployment lifecycle control
- Easy 3rd party integration with AI and ML applications
- Pre-certified with Tier-1 mobile carriers

4G Cat 1 3G 2G NB-IoT LTE CatM



GPS GLONASS Galileo BeiDou



BLE5 BLE4.2









Industrial Chillers





Industrial Boilers



Intelligent Renewables Monitoring



Building Management Systems



Network Hub for Smart Cities



Generators

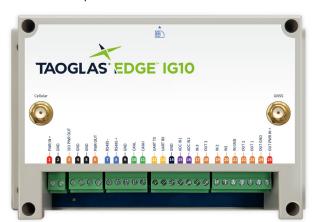
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Pinout description and functions

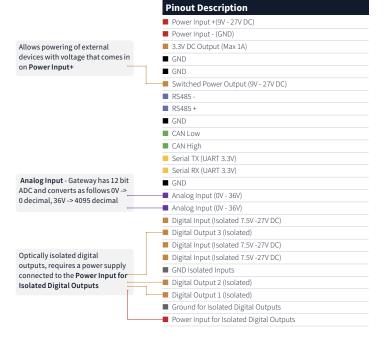


Connections Capabilities
RS485/Modbus RTU
CAN bus
UART
Analog Inputs
Multiple Digital Inputs/Outputs









PRODUCT SPECIFICATIONS			
System	Firmware/OS	RTOS + Applications Libraries (Real Time Performance)	
	Security	Cloud Mutual authentication Hardware root of trust Secure key storage	
Radios	Cellular Modems	2G, 3G, 4G, NB-IoT, Cat-1	
		LTE EMEA with 2G fallback	
		Global NB-IoT and Cat-M	
	GNSS	GPS/GLONASS/Galileo/BeiDou (use external antenna)	
	Bluetooth	BLE 4.2	
Physical	Operating temperature	-20°C (-4F) to +55°C (131F)	
	Mounting	DIN Rail	
	Dimensions	125.2 x 89.6 x 41.5mm	
	Power	9V to 27V	
	Current	1A	
Antennas (Optional)	Taoglas MA114 external permanent mount antenna, multiband cellular and GNSS (4G/3G/2G - GPS/GLONASS/Galileo)		
Tanglas Insights and data plan		Tanglas Insights subscription and cellular data plan is available	

Taoglas Insights[™]

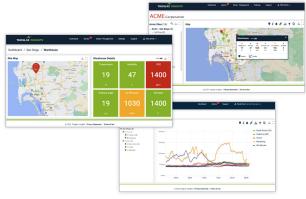
Real-time analytics

Taoglas Insights™ is your cloud-based software platform that allows for flexible, reliable and efficient gathering of data and life cycle management of EDGE devices from one dashboard.

- Device management
- · Sensor management
- Security management
- · Connectivity management
- · Application platform

It enables real-time insights and intelligence that drive optimization, cost savings, compliance and new revenue opportunities for our enterprise customers.

Taoglas Insights[™] provides everything to securely connect and manage your sensors, machines and devices remotely, removing complexity and allowing your organization to focus on today's business applications.



For further details visit:

https://www.taoglas.com/product/edge-ig10-industrial-gateway/